

Fig. 5

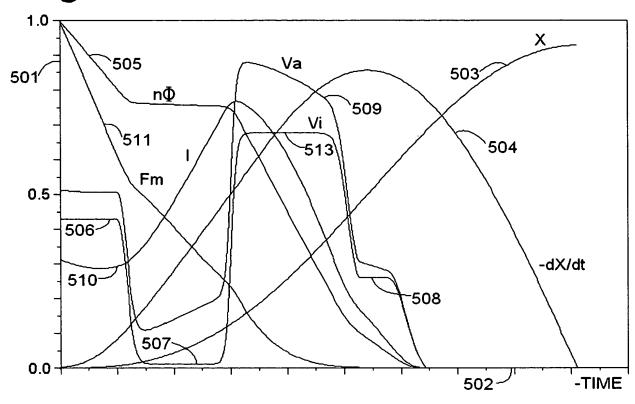


Fig. 6

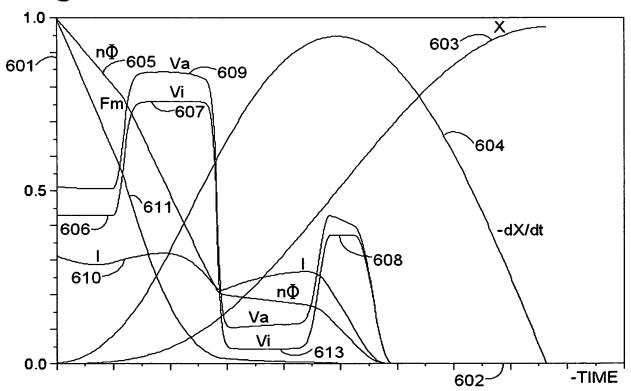
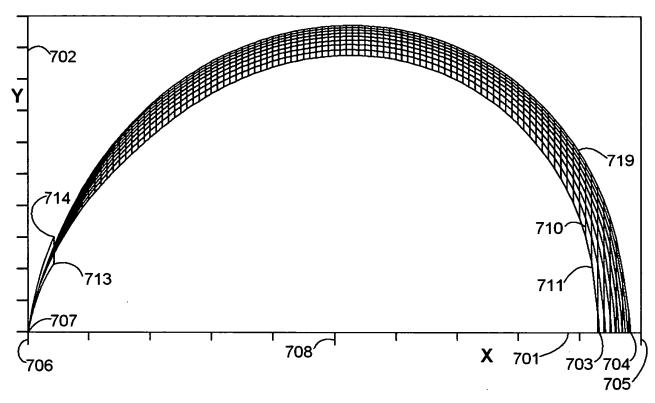
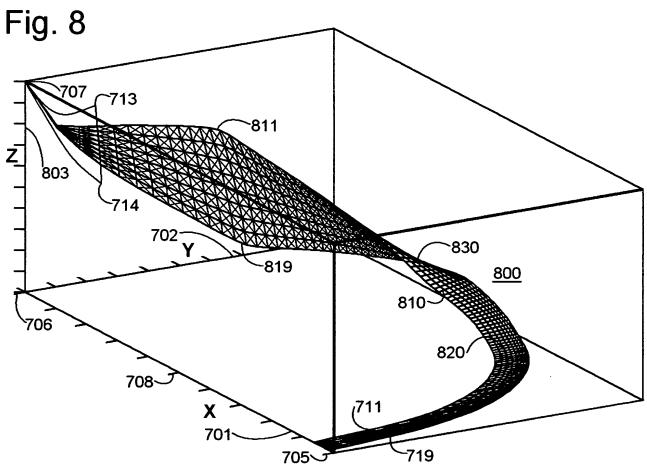
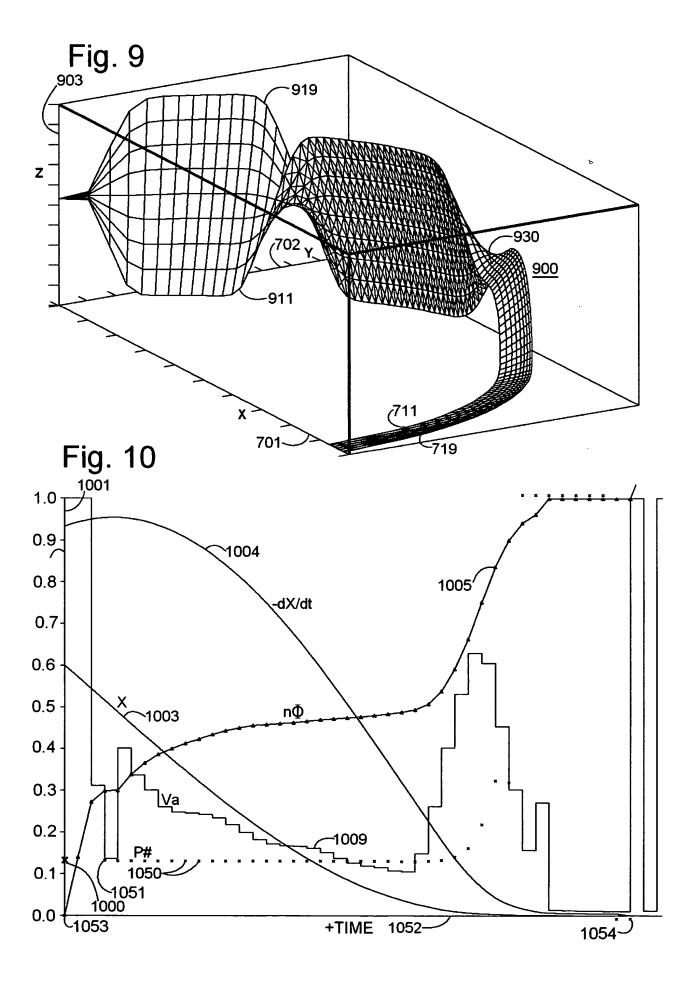


Fig. 7







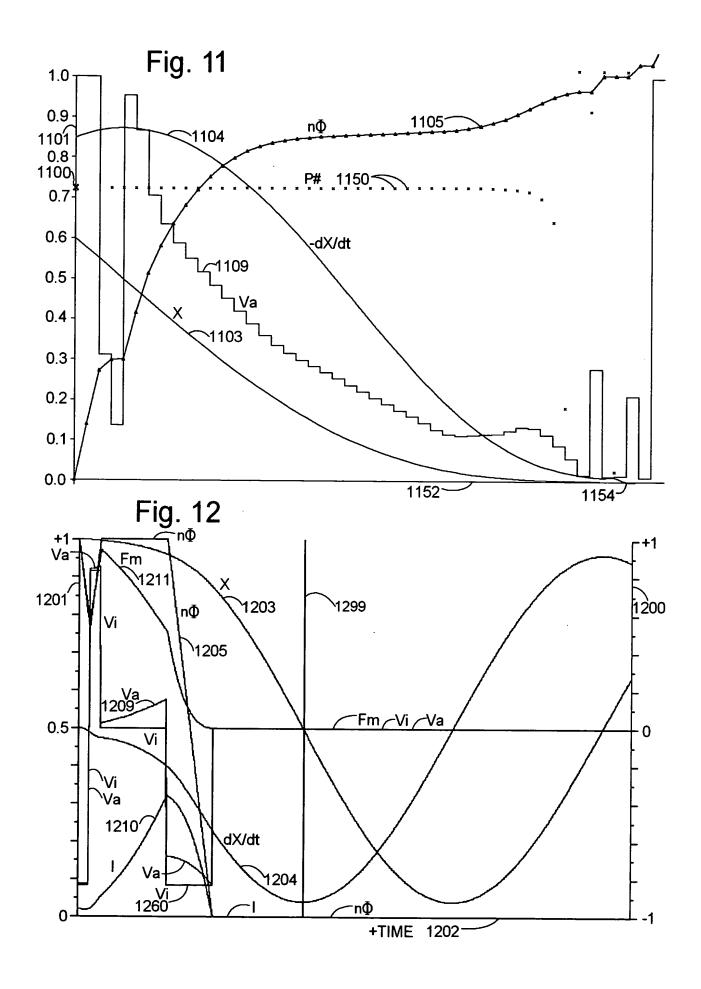


Fig. 13	TRACK Sequence Chart	<u>1300</u>
initial P# ', nΦ', PWM', B+, I', PWM		
V Start 1◀		7 1304
♥ Read A/D: I		1306
PWM to Output		1308
Va (B+, PWM')		1310
Vr'(I, I', PWM', R)		1312
Vi'= Va' – Vr'		1314
▼ nΦ = nΦ' + Vi' • dt		1316
▼ X(l/nΦ)		1318
▼ IF going THEN dX = X	- X'	1320
F going THEN P#(X, €	dX)ELSE P# = P# '	1322
F new strip THEN load	d new target strip	1324
nΦ++(P#, X)		1326
I++ P#, X)		1328
Vr(I, PWM, R)		1330
Vi(PWM, B+, Vr)		1332
$Vi_{+} = ((n\Phi_{++} - n\Phi)/dt) -$	- Vi	1334
PWM+((Vi+ + IR), B+)		1336
Vr ₊ (I ₊₊ , PWM ₊ , R)		1338
PWM+((Vi+ + Vr+), B+)	1340
IF tracking THEN Start	1 ELSE end	1342
	★	

Fig. 14	RELEASE & CAPTURE	1400
CA>CAo?		1402
yes Va = -V _{REL}		1404
Integrate nΦ ◀		1406
$x = f(I/n\Phi)$		1408
x > x ₀ ? ———————————————————————————————————		1410
nΦ _{r1} = nΦ		1412
$CA_{1}^{\downarrow} = CA$		1414
$t_1 = t$		1416
P# _r = f(nΦ ₁ ,CA ₁)		1418
Track_Release(P# _r)◀	_	1420
x < x ₂ ?	10	1422
yes P#((t₂-t₁), P# _r)		1424
▼ Track_Capture(P# , n_ste	ps, m_steps)	1426
▼ Track_Capture(X,dX, nΦ)		1428
end		1430

